FIGURE 1

(Prior Art)

FIGURE 2

(Prior Art)
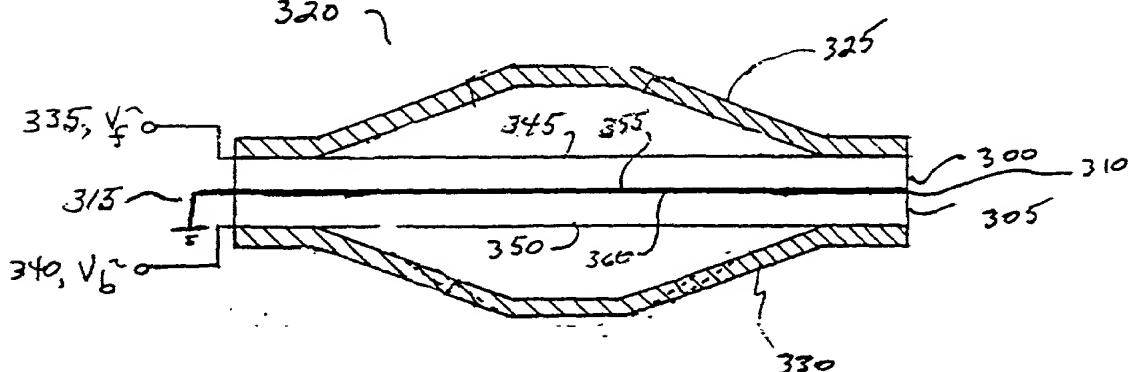
FIGURE 3
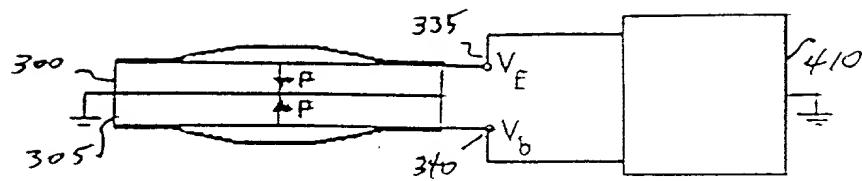
FIG. 4A   Monopole   (in phase, same amplitude), $V_b = V_f = V_m$, $\varphi = 0$
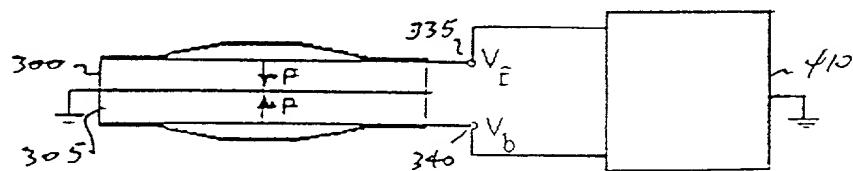

FIG. 4B   Dipole (out of phase, same amplitude), $V_b = -V_d$, $V_f = V_d$, $\varphi = \pi$
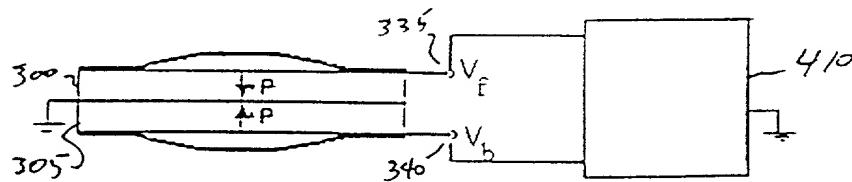
FIG. 4C   Cardioid, $V_b / V_f = (1-R) / (1+R)$, where $R = TVR_m / TVR_d$, $0 < \varphi < \pi$
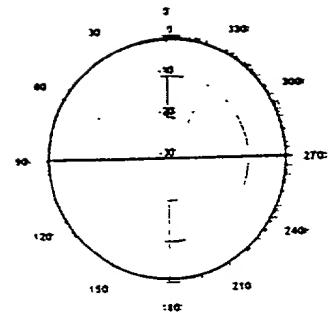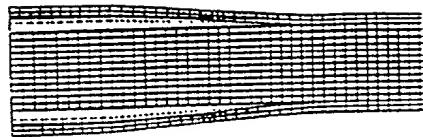
FIG. 5A Monopole mode
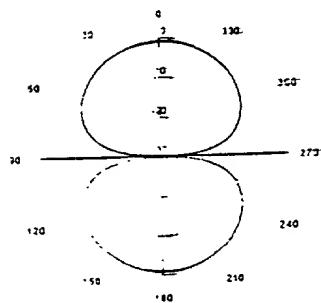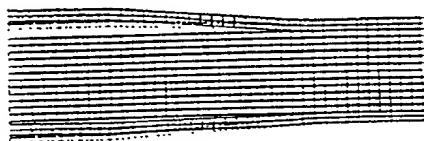
FIG. 5B dipole mode
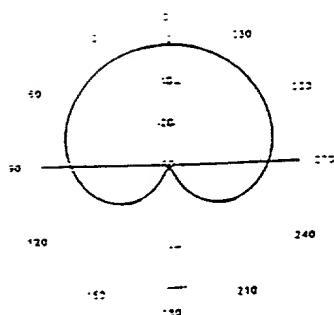
FIG. 5C cardioid mode. $V_b : V_f = (1-R) / (1+R)$, where $R = TVR_m . TVR_d$
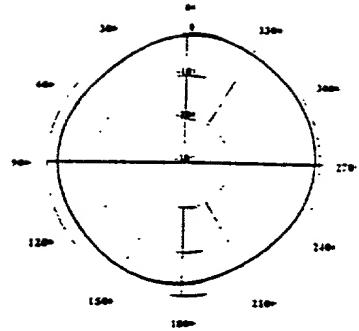
FIGURE 6A
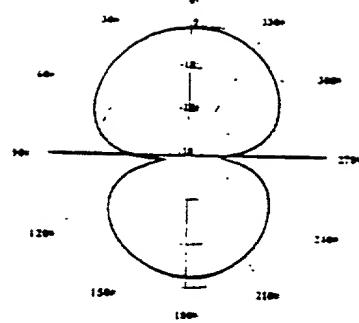
FIGURE 6B
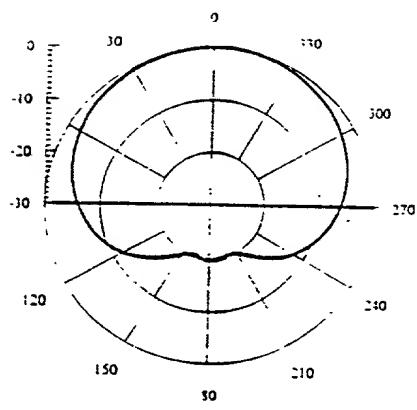
FIG. 7 A
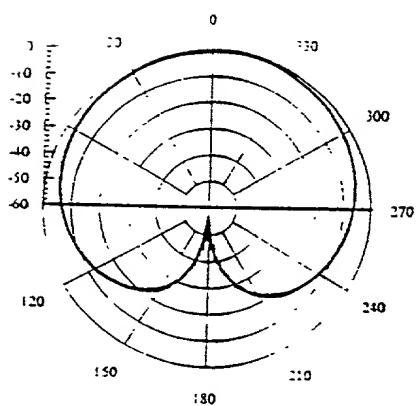
FIG. 7B
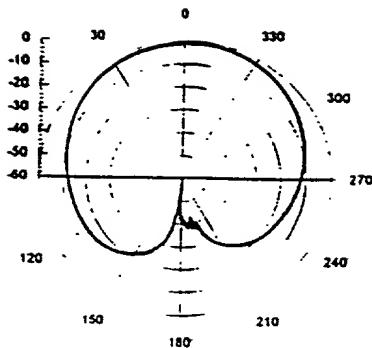
FIGURE 8A $V_f = 100$ V, $V_b = 55$ V, $\varphi = 237°$
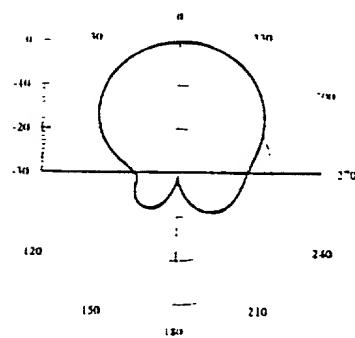
FIGURE 8B   20kHz. $V_f = 100$ V. $V_b = 38$ V. $\varphi = 268°$
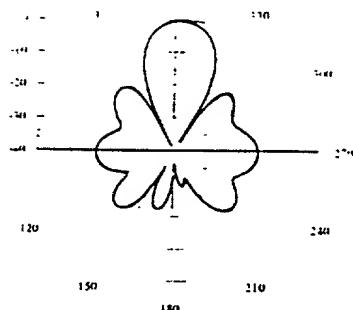
FIGURE 8C   80kHz. $V_f = 98$ V. $V_b = 100$ V. $\varphi = 332°$

900

320

FIG. 9